



# PORTS<sup>®</sup> BY THE NUMBERS

PORTS<sup>®</sup> is NOAA's Physical Oceanographic Real-Time System; a collaborative program providing oceanographic and meteorological observations for mariners to safely navigate increasingly congested shipping lanes.



**35+** new systems established over the last 30 years



PORTS<sup>®</sup> serves 80 of the top 175 US seaports = **45%**



**90%**

The percent of cargo transiting in and out of U.S. seaports being served by a NOAA PORTS<sup>®</sup>



PORTS<sup>®</sup> provides data in real-time & collects measurements every

**6 MINUTES**

Reduced accidents by 50% or more at multiple seaports



Accessible 24 hours a day / 7 days a week via internet or telephone



Generated \$50 million\* in economic benefits over a 5-year period

\*cumulative benefits for PORTS<sup>®</sup> in Houston/Galveston, NY/NJ, and Tampa Bay between 2005-2010

## 10 Types of Data

PORTS<sup>®</sup> uses emerging technology (e.g. sensors, meters) to measure the following parameters and assist navigators, emergency responders, coastal planners, weather forecasters, recreational users, and scientific researchers.



Water Levels & Tides



Waves



Currents



Wind



Air Gap



Visibility



Barometric Pressure



Air & Water Temperature



Humidity



Salinity